

This listing of claims will replace all prior versions, and listings, or claims in the application.

Claim listing:

Claims 1-23 are cancelled in favor of new claims 24-33.

24. (new) A pin for insertion in a hole in a host material and frictional engagement therein, comprising:

an elongated cylindrical body having a longitudinal axis, a cylindrical pilot portion having a first diameter, and a formed portion defined by a plurality of alternating helical lands and grooves, each said land having a width measured perpendicular to said longitudinal axis, a majority of each said land having a substantially uniform height extending above said first diameter, said width being at least approximately five times said height,

wherein said lands are oriented at an angle of approximately 45° relative to said longitudinal axis.

25. (new) The pin of claim 24, wherein said second diameter is no greater than approximately 9% larger than said first diameter.

26. (new) The pin of claim 24, wherein said lands have a surface area that is at least approximately 40% of a surface area of said formed portion.

27. (new) The pin of claim 24, wherein said width is between five and fifteen times said height.

28. (new) The pin of claim 24, wherein a majority of each said land is a substantially cylindrical surface parallel to said longitudinal axis.

29. (new) The pin of claim 24, wherein said second diameter is .02mm to .1mm larger than the first diameter.

30. (new) The pin of claim 24, wherein the host material has a first hardness and said pin has a second hardness, said first hardness and second hardness measured on the Rockwell Rc scale and said first hardness is approximately 10 points higher on the Rockwell Rc scale than said second hardness.

31. (new) The pin of claim 24, wherein said pilot portion is intermediate said formed portion and an end of said pin.

32. (new) The pin of claim 24, said pin having opposed ends and comprising a cylindrical pilot portion intermediate the formed portion and each of said ends.

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33. (new) The pin of claim 24, wherein said grooves have a width measured perpendicular to said longitudinal axis and the width of said grooves is approximately equal to the width of said lands.